Attorney Docket No. UCSD-08833



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re Application of: Matthew A. Spear

Serial No.:

10/501,609

04/15/2005

Group No.: 1639

Filed: Entitled:

**Functional Ligand Display** 

Shibuya, M.L. Examiner:

# INFORMATION DISCLOSURE STATEMENT

**MS** Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)

I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria VA **223**13-1450.

Dated: August 1, 2007

Cliff Cannon-Cin

## Dear Sir:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. § 1.56 and § 1.97. The Examiner is requested to make these citations of official record in this application:

- U.S. Patent No. 5,824,520 of Mulligan-Kehoe, "Phage-display of immunoglobulin heavy chain libraries for identification of inhibitors of intracellular constituents," (1998);
- U.S. Patent No. 6,287,874 of Hefti, "Methods for analyzing protein binding events," (2001);
- U.S. Publication No. 2001/0055585 of Cance et al., "FRNK proteins in the treatment of tumor cells," (2001);
- Arap et al., "Cancer treatment by targeted drug delivery to tumor vasculature in a mouse model," Science, 279:377-380 (1998);

- Chowdhury et al., "Analysis of cloned Fvs from a phage display library indicates that
  DNA immunization can mimic antibody response generated by cell immunizations," J
  Immunol Methods, 231:83-91 (1999);
- Larocca *et al.*, "Gene transfer to mammalian cells using genetically targeted filamentous bacteriophage," *FASEB J*, 13:727-734 (1999);
- Moore et al., "Simultaneous measurement of cell cycle and apoptotic cell death,"
   Methods Cell Biol, 57:265-278 (1998);
- Spear *et al.*, "Isolation, characterization, and recovery of small peptide phage display epitopes selected against viable malignant glioma cells," *Cancer Gene Ther*, 8:506-511 (2001); and
- Winthrop *et al.*, "Development of a hyperimmune anti-MUC-1 single chain antibody fragments phage display library for targeting breast cancer," *Clin Cancer Res*, 5:3088s-3094s (1999).

This Information Disclosure Statement under 37 C.F.R. § 1.56 and § 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: \_\_\_\_August 1, 2007

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT



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U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No.: UCSD-08833

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Applicant: Matthew A. Spear

### (Use Secral Sheets If Necessary) Filing or 371(c) Date: 04/15/2005 Group Art Unit: 1639 (37 CFR § 1.98(t) MUZDAY U.S. PATENT DOCUMENTS Examiner Cite Document / Subclass Filing Date Issue Date Applicant / Patentee Class Initials No. Patent Number 1 10/20/1998 Mulligan-Kehoe 435 91.41 07/19/1997 5,824,520 2 501 08/02/1999 6,287,874 09/11/2001 Hefti 436 3 424 93.6 12/02/1998 2001/0055585 12/27/2001 Cance et al. FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS Translation Document **Publication Date** Country / Patent Office Class Subclass Number Yes Nο OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication) 4 Arap et al., "Cancer treatment by targeted drug delivery to tumor vasculature in a mouse model," Science, 279:377-380 (1998) Chowdhury et al., "Analysis of cloned Fvs from a phage display library indicates that DNA immunization can mimic antibody response 5 generated by cell immunizations," J Immunol Methods, 231:83-91 (1999) 6 Larocca et al., "Gene transfer to mammalian cells using genetically targeted filamentous bacteriophage," FASEB J, 13:727-734 (1999) 7 Moore et al., "Simultaneous measurement of cell cycle and apoptotic cell death," Methods Cell Biol, 57:265-278 (1998) Spear et al., "Isolation, characterization, and recovery of small peptide phage display epitopes selected against viable malignant glioma cells," 8 Cancer Gene Ther, 8:506-511 (2001) Winthrop et al., "Development of a hyperimmune anti-MUC-1 single chain antibody fragments phage display library for targeting breast cancer," 9 Clin Cancer Res, 5:3088s-3094s (1999) Examiner: Date Considered:

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.